

ABSTRACT

A control device (~~30~~) generates, upon receiving an instruction to start engine (~~ENG~~) while drive wheels of a hybrid vehicle are driven by a motor generator (~~MG2~~), a
5 signal (~~PWMC~~) to output the signal to a voltage step-up converter (~~12~~), and thereby drives and controls the voltage step-up converter (~~12~~) to step up a DC voltage (~~V_b~~) that is output from a battery (~~B~~) to a maximum voltage (~~V_{max}~~) of a motor drive apparatus (~~100~~). Then, the control device (~~30~~) generates, when an output voltage (~~V_m~~) of the
10 voltage step-up converter (~~12~~) reaches the maximum voltage (~~V_{max}~~), a signal (~~PWMI~~) to output the generated signal to an inverter (~~14~~). Accordingly, the inverter (~~14~~) is driven and controlled to drive motor generator (~~MG1~~) in powering mode.